

Hydrological Summary for Great Britain

MAY 1994

Rainfall

May was characterised by very large regional variations in rainfall, temperature and sunshine amounts. Broadly, northern Britain was sunny and dry, notably so in much of Scotland where high pressure predominated. By contrast, southern Britain - apart from the beginning and end of the month - experienced dull and wet weather. The synoptic conditions produced an unusual south-north rainfall gradient; the monthly total at Exeter, for example, being an order of magnitude greater than that for Glasgow (11 mm). Catchment rainfall totals approached 200% of the May average in parts of southern England but declined to less than 30% in parts of Scotland. Provisional data suggest that, countrywide, Scotland registered its lowest monthly rainfall total for ten years (the spring having begun with the wettest March in a 125-year record!). The limited rainfall, warm weather and the drying effect of the prevailing easterlies were responsible for some unseasonably early forest fires. May ended a sequence of five consecutive months with above average rainfall in large parts of northern Britain. In the greater part of the English lowlands the run of wet months continues - extending, remarkably, to 14 months in a few eastern catchments; the most persistently unsettled episode since at least 1960/61 in some areas. Correspondingly, accumulated rainfall totals in the 6-14 month timeframes are exceptional, and unprecedented in many catchments with areal rainfall records of 30-years or less. A telling index of the unsettled nature of weather conditions in the recent past is the dearth of dry days. In parts of central and southern England, less than 70 dry days have been recorded since last August, in a average year around 120-130 would be expected. Rainfall in all regions is well above average both for the year thus far and over the last 12 months - the highest (for any start month) for >30 years in many southern areas. Long return periods are associated with long term rainfall accumulations for the Anglian, Thames, Southern, Wessex and South-West regions.

River Flow

May began with healthy, if not notable, flow rates in most rivers. In northern Britain minor spates occurred in the first week but, thereafter, recessions were steep and sustained. In much of eastern and southern Britain developing soil moisture deficits reduced catchment responsiveness to the May rainfall but, in permeable catchments, substantial groundwater contributions maintained runoff rates at well above the seasonal

average. Away from the English lowlands monthly runoff totals declined as a proportion of the long term average and were often below 60% of the May mean in northern Britain - but still well within the normal range. Medium and long term runoff accumulations are considerably above average throughout most of the country and, in the eastern lowlands, testify to a noteworthy recovery since the 1988-92 drought. The Mimram, which drains a chalk catchment, established a new maximum spring runoff total but, more notably, runoff over the last year is the highest on record (for any 12-month sequence); similarly the accumulated total since September 1992 is unprecedented (as is that for the Kennet). For a significant proportion of lowland spring-fed rivers, mean flows over the 18 months ending in May 1994 are around three times the average for the preceding 18 months; the associated headwater extension of the stream network (and with it, aquatic habitats) has been correspondingly dramatic.

Groundwater

Accelerating evaporation rates in May meant that, as usual in late spring, aquifer recharge was limited and patchy. At a few index sites in fissured aquifers (e.g. Ampney Crucis), a modest upturn in levels was recorded. Generally in the south, however, infiltration during May resulted only in a moderation in the established recessions. Northern aquifers displayed far brisker declines in groundwater levels with a steep fall at Dalton Holme (Chalk and Upper Greensand) and a 20-metre fall in the Carboniferous Limestone at Alstonfield. Broadly, levels in most of the southern Chalk remain well above average, especially in the eastern Chilterns and Norfolk; levels in parts of the North and South Downs are also notably high. Reflecting the May rainfall, levels in the Permo-Trias show large spatial variation but within the normal range. Levels declined in most outcrop areas but Weeford Flats returned to average for the first time since 1988 and recoveries continue in the slow-responding confined zones.

General

In early May, warm conditions generated a surge of garden watering and irrigation use but subsequently demand moderated. Very limited inflows produced significant reductions in reservoir stocks in northern Britain but at month-end the water resources outlook remained healthy in all regions.



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British
Geological
Survey

Data for this report have been provided principally by the regional divisions of the National Rivers Authority* in England and Wales, the River Purification Boards in Scotland and by the Meteorological Office. Reservoir contents information has been supplied by the Water Services Companies, the NRA or, in Scotland, the Lothians Regional Council. The most recent areal rainfall figures are derived from a restricted network of raingauges and a proportion of the river flow data is of a provisional nature.

A map (Figure 3) is provided to assist in the location of the principal monitoring sites.

Financial support towards the production of the Hydrological Summaries is given by the Department of the Environment and the National Rivers Authority.

The Hydrological Summaries are available on annual subscription at a current cost of £48 per year - enquiries should be directed to the National Water Archive Office at the address below. No charge is made to those organisations providing data for the Summaries.

* For reasons of consistency and to provide greater spatial discrimination, the original ten regional divisions of the NRA have been retained for use in the Hydrological Summaries.

MORECS

Most of the recent monthly regional rainfall data featured in the Hydrological Summaries are MORECS assessments. MORECS is the generic name for The Meteorological Office services involving the calculation of evaporation and soil moisture routinely for Great Britain. Products include a weekly issue of maps and tables of potential and actual evaporation, soil moisture deficits, effective rainfall and the hydrometeorological variables used to calculate them. The data are used to provide values for 40 km squares - or larger areas - and various sets of maps and tables are available according to user requirements. Options include a day-by-day retrospective calculation of soil moisture at any of 4000 rain-gauge sites.

Further information about MORECS services may be obtained from: The Meteorological Office, Sutton House, London Road, Bracknell, RG12 2SY

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TABLE 1 1993/94 RAINFALL AS A PERCENTAGE OF THE 1961-90 AVERAGE

Note: The monthly rainfall figures are the copyright of The Meteorological Office. These data may not be published or passed on to any unauthorised person or organisation.

		May 1993	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Jan 1994	Feb	Mar	Apr	May
England and Wales	mm	89	66	83	55	113	89	74	167		123	82	93	75	70
	%	139	102	134	72	147	105	82	178		140	130	129	125	109
NRA REGIONS															
North West	mm	128	57	109	80	87	51	65	248		145	70	151	151	39
	%	171	70	128	75	76	40	53	200		120	90	159	213	52
Northumbria	mm	119	39	59	77	109	91	63	135		108	70	82	65	24
	%	192	65	91	95	149	120	73	167		129	119	117	116	38
Severn-Trent	mm	80	72	79	43	95	74	67	137		94	71	74	59	52
	%	136	122	149	64	148	116	94	178		134	131	121	107	89
Yorkshire	mm	83	48	68	78	132	62	63	134		117	68	69	61	45
	%	138	80	115	105	194	85	79	161		148	117	101	103	74
Anglian	mm	52	49	69	45	105	90	70	85		73	44	52	52	51
	%	108	96	141	82	214	176	121	155		146	119	111	113	106
Thames	mm	61	57	55	33	103	111	47	104		97	59	49	59	77
	%	109	104	112	57	175	179	72	149		152	131	88	118	138
Southern	mm	58	53	62	37	123	134	63	154		124	63	57	78	88
	%	107	98	129	65	178	168	74	188		155	117	90	147	162
Wessex	mm	62	69	76	36	120	122	63	169		126	99	79	63	88
	%	102	121	146	55	167	154	76	182		145	152	113	119	144
South West	mm	131	108	128	39	168	119	107	264		186	174	124	87	93
	%	182	157	186	46	181	103	86	190		135	172	125	126	129
Welsh	mm	134	99	111	75	118	81	113	259		183	130	177	115	73
	%	163	125	144	74	103	59	80	169		128	134	165	144	89
Scotland	mm	111	72	113	74	76	118	76	232		215	99	249	134	25
	%	129	84	120	63	54	76	50	154		142	97	199	176	29
RIVER PURIFICATION BOARDS															
Highland	mm	93	83	142	89	52	139	68	266		257	84	338	188	29
	%	101	85	134	70	30	70	33	135		137	66	209	207	32
North-East	mm	108	59	79	69	88	171	44	113		132	105	105	77	15
	%	157	89	108	79	101	176	44	122		133	162	135	128	22
Tay	mm	128	58	90	58	100	127	77	157		200	114	229	103	19
	%	154	79	117	62	88	98	64	124		139	120	210	166	23
Forth	mm	120	72	73	50	79	108	73	187		160	88	204	83	16
	%	162	104	97	53	72	94	65	170		136	111	217	141	22
Tweed	mm	131	62	54	52	91	134	55	171		140	86	122	71	18
	%	185	95	74	59	102	141	59	184		140	128	154	125	25
Solway	mm	146	72	101	65	102	54	97	266		197	117	191	120	27
	%	172	86	112	55	71	34	67	180		126	116	163	156	32
Clyde	mm	117	77	137	89	74	67	113	300		269	114	301	148	33
	%	129	83	126	66	41	35	63	168		142	97	205	176	36

Note: The monthly rainfall figures for the NRA regions for May correspond to the MORECS areal assessments derived by The Meteorological Office. In northern England these initial assessments may have a particularly wide error band associated with them. The figures for the RPB regions for May 1994 were derived by IH in collaboration with the RPBs. The provisional figures for England and Wales and for Scotland are derived using a different raingauge network. Regional areal rainfall figures are regularly updated (normally one or two months in arrears) using figures derived from a far denser raingauge network.

TABLE 2 RAINFALL RETURN PERIOD ESTIMATES

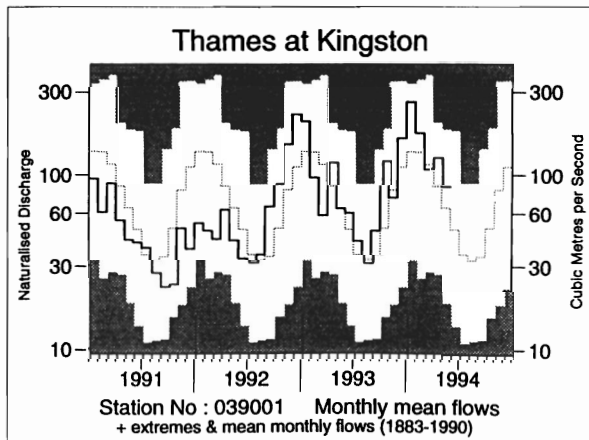
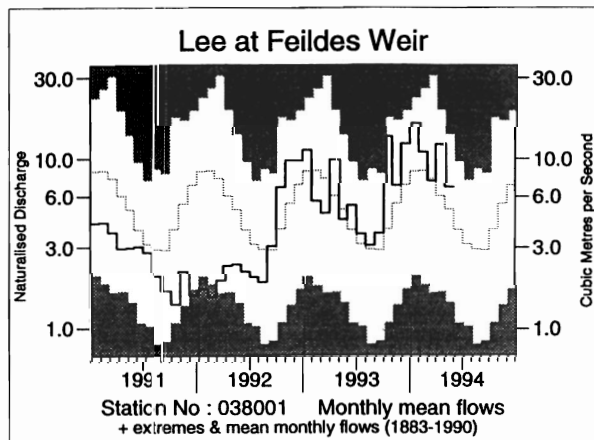
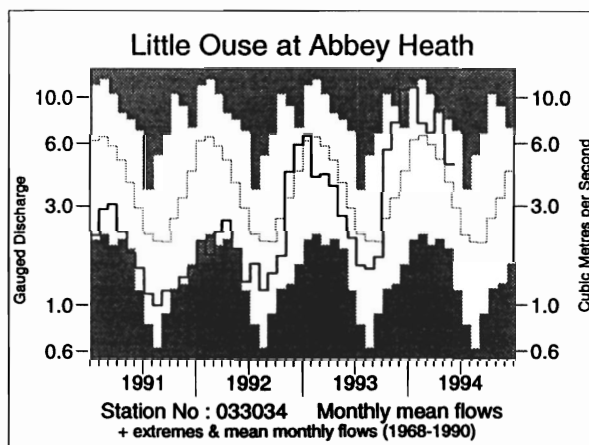
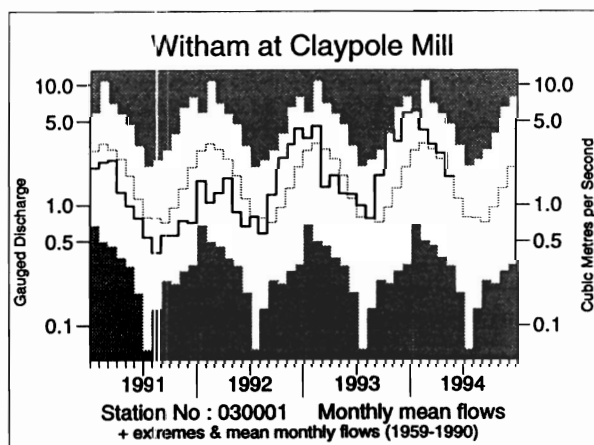
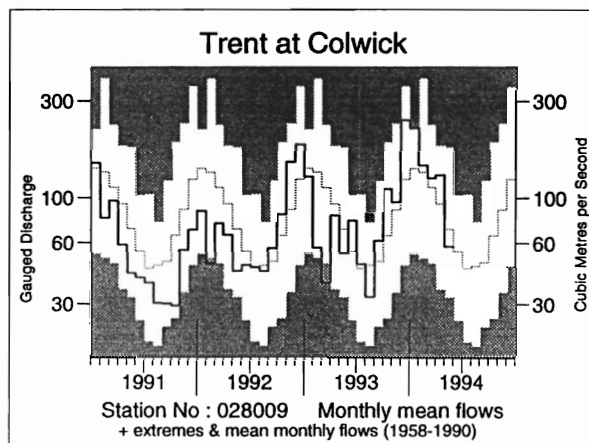
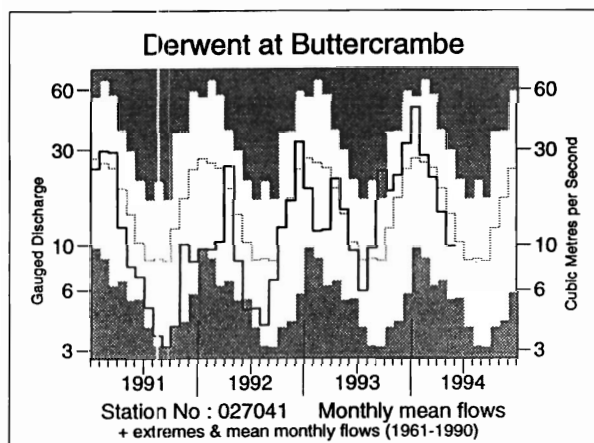
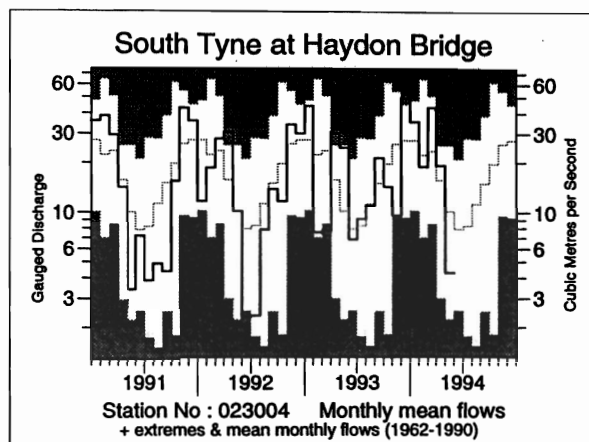
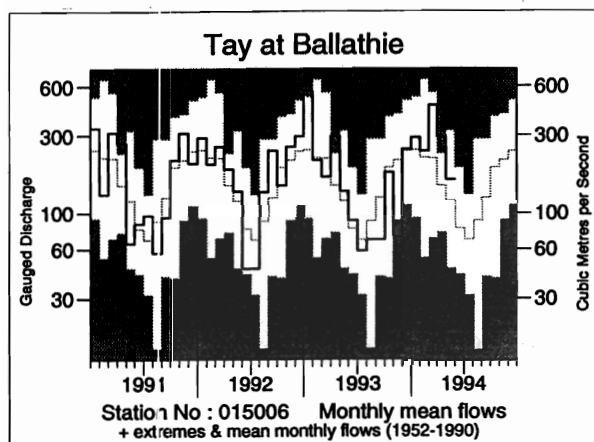
		Mar94-May94		Sep93-May94		Jun93-May94		Mar92-May94	
		Est Return Period, years		Est Return Period, years		Est Return Period, years		Est Return Period, years	
England and Wales	mm	238		886		1090		2282	
	% LTA	121	<u>5-10</u>	128	<u>25-40</u>	122	<u>15-25</u>	115	<u>15-25</u>
NRA REGIONS									
North West	mm	341		1007		1253		2803	
	% LTA	141	<u>10-20</u>	108	<u>2-5</u>	104	<u>2-5</u>	106	<u>2-5</u>
Northumbria	mm	171		747		922		2081	
	% LTA	91	<u>2-5</u>	115	<u>5-10</u>	108	<u>2-5</u>	110	<u>5-10</u>
Severn-Trent	mm	185		723		917		1941	
	% LTA	106	<u>2-5</u>	126	<u>10-20</u>	122	<u>10-20</u>	115	<u>10-20</u>
Yorkshire	mm	175		751		945		2003	
	% LTA	93	<u>2-5</u>	120	<u>5-10</u>	115	<u>5-10</u>	110	<u>5-10</u>
Anglian	mm	155		622		785		1642	
	% LTA	110	<u>2-5</u>	141	<u>80-120</u>	132	<u>50-80</u>	123	<u>80-120</u>
Thames	mm	185		706		851		1855	
	% LTA	114	<u>2-5</u>	134	<u>25-40</u>	124	<u>10-20</u>	121	<u>30-45</u>
Southern	mm	223		884		1036		2070	
	% LTA	131	<u>5-10</u>	143	<u>70-100</u>	133	<u>40-60</u>	120	<u>30-45</u>
Wessex	mm	230		929		1110		2197	
	% LTA	125	<u>2-5</u>	140	<u>50-80</u>	132	<u>35-50</u>	118	<u>15-25</u>
South West	mm	304		1322		1597		3068	
	% LTA	127	<u>5-10</u>	139	<u>60-90</u>	136	<u>80-120</u>	119	<u>25-40</u>
Welsh	mm	365		1249		1534		3266	
	% LTA	136	<u>5-15</u>	118	<u>5-10</u>	117	<u>5-10</u>	113	<u>5-15</u>
Scotland	mm	408		1224		1483		3632	
	% LTA	142	<u>30-50</u>	107	<u>205</u>	103	<u>2-5</u>	115	<u>40-60</u>
RIVER PURIFICATION BOARDS									
Highland	mm	555		1421		1735		4367	
	% LTA	161	<u>150-250</u>	99	<u>2-5</u>	99	<u>2-5</u>	113	<u>15-25</u>
North-East	mm	197		850		1057		2339	
	% LTA	95	<u>2-5</u>	114	<u>5-10</u>	109	<u>2-5</u>	109	<u>5-10</u>
Tay	mm	351		1126		1332		3209	
	% LTA	138	<u>10-20</u>	114	<u>5-10</u>	108	<u>2-5</u>	118	<u>35-50</u>
Forth	mm	303		998		1193		2830	
	% LTA	134	<u>10-15</u>	115	<u>5-10</u>	108	<u>2-5</u>	116	<u>30-40</u>
Tweed	mm	211		888		1056		2474	
	% LTA	102	<u>2-5</u>	119	<u>5-15</u>	109	<u>2-5</u>	115	<u>15-25</u>
Solway	mm	338		1171		1409		3436	
	% LTA	121	<u>5-10</u>	104	<u>2-5</u>	99	<u>2-5</u>	110	<u>5-10</u>
Clyde	mm	482		1419		1722		4279	
	% LTA	150	<u>40-60</u>	104	<u>2-5</u>	102	<u>2-5</u>	115	<u>30-40</u>

LTA refers to the period 1961-90.

Return period assessments are based on tables provided by the Meteorological Office*. The tables reflect rainfall totals over the period 1911-70 only and the estimate assumes a sensibly stable climate. They assume a start in a specified month; return periods for a start in any month may be expected to be an order of magnitude less - for the longest durations the return period estimates converge. "Wet" return periods underlined.

* Tabony, R.C., 1977, The Variability of long duration rainfall over Great Britain, Scientific Paper No. 37, Meteorological Office.

FIGURE 1 MONTHLY RIVER FLOW HYDROGRAPHS



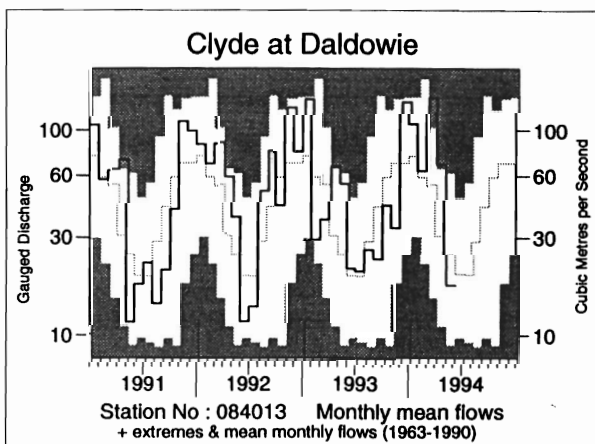
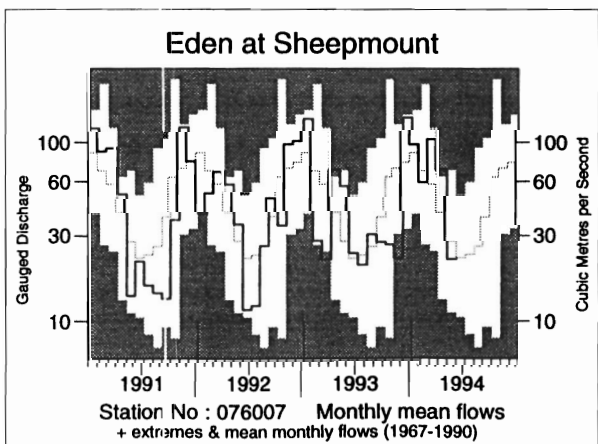
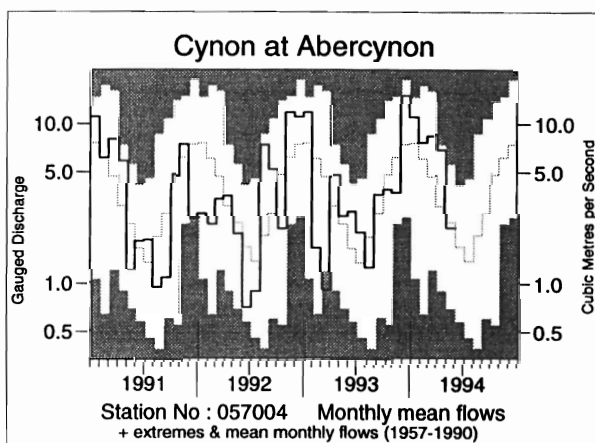
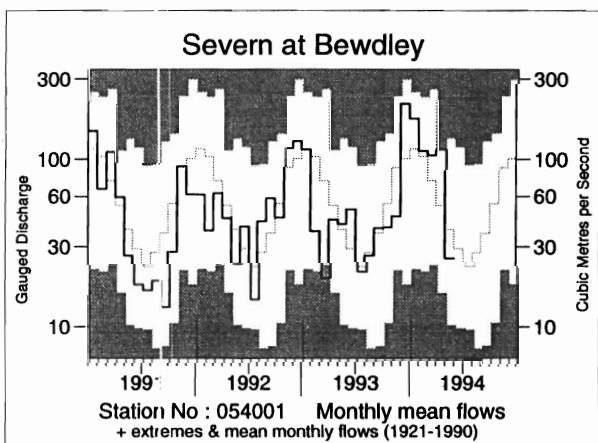
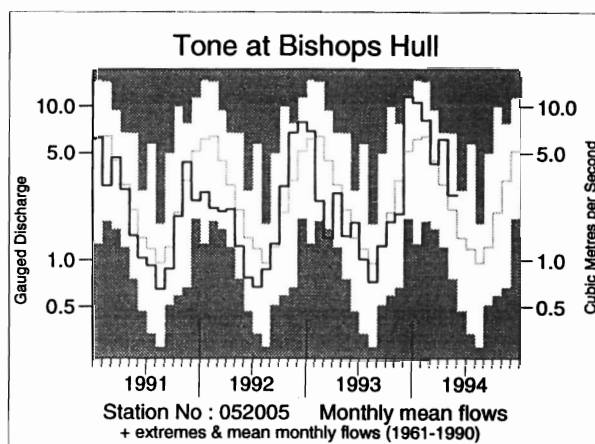
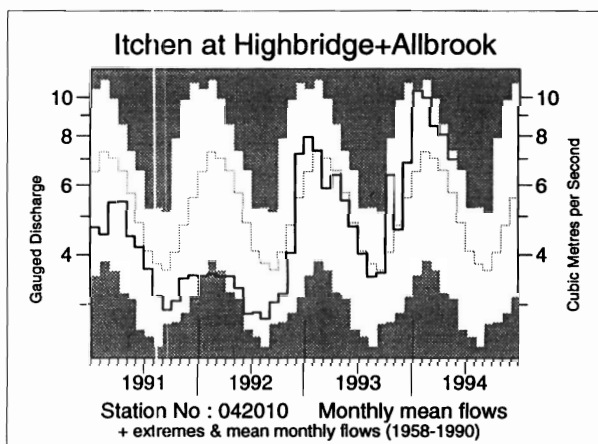
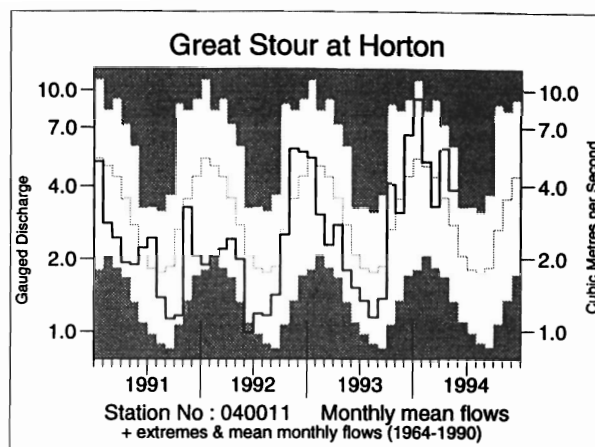
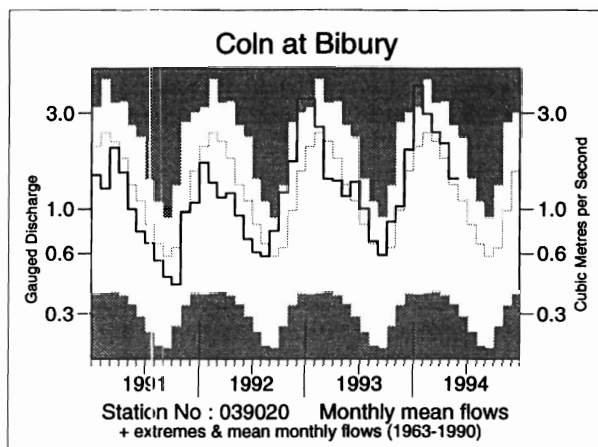


TABLE 3 RUNOFF AS MM. AND AS A PERCENTAGE OF THE PERIOD OF RECORD AVERAGE WITH SELECTED PERIODS RANKED IN THE RECORD

River/ Station name	Jan 1994	Feb	Mar	Apr	May 1994	3/94 to 5/94	12/93 to 5/94	6/93 to 5/94	9/92 to 5/94
	mm %LT	mm %LT	mm %LT	mm %LT	mm %LT rank /yrs	mm %LT rank /yrs	mm %LT rank /yrs	mm %LT rank /yrs	mm %LT rank /yrs
Dee at Park	122 138	64 89	167 178	96 123	48 78 10 /22	311 131 18 /22	577 118 19 /22	912 115 18 /21	1676 112 16 /20
Tay at Ballathie	169 117	126 110	268 209	166 194	94 136 33 /42	528 182 42 /42	967 139 41 /42	1273 112 34 /41	2594 121 36 /40
Tweed at Boleside.	149 145	78 100	165 205	81 151	33 79 16 /34	279 155 32 /34	674 146 33 /33	923 121 31 /33	1749 122 32 /32
Whiteadder Water at Hutton Castle	113 194	55 114	51 101	26 67	14 53 7 /25	90 79 8 /25	356 132 21 /25	504 127 20 /24	849 115 17 /24
South Tyne at Haydon Bridge	126 131	61 83	155 182	67 120	15 43 7 /32	236 132 26 /32	600 133 32 /32	851 112 23 /30	1565 109 22 /28
Wharfe at Flint Mill Weir	155 159	64 84	117 152	73 134	19 50 12 /39	208 123 31 /39	582 132 36 /39	827 114 30 /38	1418 105 21 /37
Derwent at Buttercrambe	82 183	43 109	37 90	24 76	17 71 11 /33	77 82 12 /33	256 117 23 /33	404 124 26 /32	650 107 21 /31
Trent at Colwick	78 158	47 111	45 113	45 141	21 84 18 /36	110 116 26 /36	321 138 34 /36	470 132 33 /35	762 116 26 /34
Lud at Louth	74 262	48 148	42 123	38 123	33 130 19 /26	113 126 20 /26	283 163 23 /26	394 158 24 /25	551 121 18 /25
Witham at Claypole Mill	56 223	34 133	29 112	23 114	15 100 26 /36	68 110 23 /35	210 157 33 /35	319 171 33 /35	527 152 34 /34
Little Ouse at Abbey Heath	42 190	26 121	26 120	32 180	18 126 22 /27	75 140 21 /26	185 159 25 /26	259 151 24 /26	390 126 22 /25
Colne at Lexden	34 152	23 128	13 71	22 167	10 112 28 /35	44 112 24 /35	141 146 30 /35	194 141 30 /34	334 131 30 /33
Lee at Feildes Weir (natr.)	41 192	25 130	19 98	30 203	18 138 89 /109	67 142 93 /108	165 154 98 /108	257 158 100 /107	421 141 97 /105
Thames at Kingston (natr.)	71 193	43 129	29 94	32 145	23 133 91 /112	85 120 80 /112	242 142 96 /111	342 139 98 /111	625 136 102 /110
Coln at Bibury	102 203	67 127	61 114	51 121	35 109 23 /31	147 115 23 /31	366 133 30 /31	503 127 28 /30	925 127 29 /29
Great Stour at Horton	71 180	36 108	26 78	43 166	29 140 26 /30	98 124 23 /29	255 137 24 /28	351 121 23 /28	581 108 16 /26
Itchen at Highbridge+Allbrook	77 164	67 140	63 123	58 126	52 124 31 /36	172 124 34 /36	368 132 34 /36	564 123 33 /35	931 113 29 /34
Piddle at Baggs Mill	115 226	79 138	73 132	59 140	43 139 28 /31	176 135 27 /31	442 156 30 /30	606 149 29 /29	988 131 25 /27
Exe at Thorverton	209 163	137 132	125 148	133 238	34 90 22 /39	292 163 37 /38	908 166 38 /38	1167 140 37 /38	1891 120 33 /37
Taw at Umbrellagh	193 168	124 146	112 165	112 256	25 85 20 /36	249 175 35 /36	795 172 36 /36	1105 158 35 /35	1725 129 33 /34
Tone at Bishops Hull	138 176	96 131	55 97	77 201	34 128 27 /34	166 137 28 /34	551 161 33 /33	659 140 32 /33	1092 122 29 /32
Severn at Bewdley	108 152	63 109	65 141	67 213	16 68 25 /74	149 146 66 /73	451 154 72 /73	585 130 64 /73	951 112 52 /72
Teme at Knightsford Bridge	91 141	65 125	33 68	47 142	11 53 6 /25	91 92 10 /24	350 129 22 /24	466 128 23 /24	766 111 16 /23
Cynon at Abercynon	281 148	175 128	213 178	164 214	56 95 19 /36	433 167 35 /36	1264 161 36 /36	1695 133 34 /34	2986 125 32 /32
Dee at New Inn	301 128	176 106	319 175	195 183	41 62 11 /25	555 154 24 /25	1545 152 25 /25	2016 112 18 /24	3447 102 14 /24
Eden at Sheepmount	114 113	63 85	122 173	79 168	26 80 11 /24	227 147 23 /24	565 133 23 /23	740 107 14 /22	1421 110 15 /20
Clyde at Daldowie	152 141	81 106	199 259	91 203	24 70 12 /31	314 192 31 /31	738 163 31 /31	971 123 28 /30	1874 127 29 /29
Carron at New Kelso	364 119	84 40	451 158	300 213	56 56 6 /16	808 151 15 /16	1574 111 11 /15	2247 87 4 /15	4695 97 6 /14
Ewe at Poolewe	258 98	159 86	326 163	264 190	119 120 18 /24	709 158 22 /24	1391 118 17 /24	2035 95 9 /23	4443 110 17 /22

Notes: (i) Values based on gauged flow data unless flagged (natr.), when naturalised data have been used.
(ii) Values are ranked so that lowest runoff is rank 1.
(iii) %LT means percentage of long term average from the start of the record to the 1992. For the long periods (at the right of this table), the end date for the long term is 1993.

TABLE 4 START-MONTH RESERVOIR STORAGES UP TO JUNE 1994

Area	Reservoir (R)/ Group (G)	Capacity● (MI)	1994							1993
			Jan	Feb	Mar	Apr	May	June	June	
North West	Northern Command Zone ¹	(G)	133375	80	97	93	100	97	85	92
	Vyrnwy	(R)	55146	100	100	100	100	94	87	94
Northumbria	Teesdale ²	(G)	87936	100	97	96	100	99	83	96
	Kielder	(R)	199175*	99*	98*	91*	96*	93*	92*	96*
Severn-Trent	Clywedog	(R)	44922	100	100	98	99	96	93	100
	Derwent Valley ³	(G)	39525	100	100	99	100	97	90	90
Yorkshire	Washburn ⁴	(G)	22035	92	100	98	100	94	89	94
	Bradford supply ⁵	(G)	41407	97	99	98	98	96	83	91
Anglian	Grafham	(R)	58707	89	93	98	91	96	96	95
	Rutland	(R)	130061	95	96	97	96	96	95	93
Thames	London ⁶	(G)	207569	87	87	87	89	89	88	96
	Farmoor ⁷	(G)	13843	98	98	99	98	98	98	98
Southern	Bowl	(R)	28170	97	100	92	100	100	100	96
	Ardingly	(R)	4685	100	100	100	100	100	100	100
Wessex	Clatworthy	(R)	4918	100	100	100	100	99	88	86
	Bristol W ⁸	(G)	38666*	88*	88*	99*	99*	98*	94*	84*
South West	Colliford	(R)	28540	98	100	100	100	100	96	84
	Roadford	(R)	34500	92	98	97	100	97	92	78
	Wimbleball ⁹	(R)	21320	100	100	100	100	99	99	89
	Stithians	(R)	5205	100	100	100	100	96	93	91
Welsh	Celyn + Brenig	(G)	131155	100	100	100	100	99	97	99
	Brianne	(R)	62140	100	100	100	100	100	96	100
	Big Five ¹⁰	(G)	69762	98	99	99	100	97	93	92
	Elan Valley ¹¹	(G)	99106	100	100	100	100	99	95	100
Lothian	Edinburgh/Mid Lothian	(G)	97639	92	97	94	99	98	93	99
	West Lothian	(G)	5613	100	99	96	99	100	91	99
	East Lothian	(G)	10206	98	97	99	98	99	95	100

● Live or usable capacity (unless indicated otherwise)

* Gross storage/percentage of gross storage

1. Includes Haweswater, Thirlmere, Stocks and Barnacre.
2. Cow Green, Selset, Grassholme, Balderhead, Blackton and Hury.
3. Howden, Derwent and Ladybower.
4. Swinsty, Fewston, Thruscross and Eccup.
5. The Nidd/Barden group (Scar House, Angram, Upper Barden, Lower Barden and Chelker) plus Grimwith.
6. Lower Thames (includes Queen Mother, Wraysbury, Queen Mary, King George VI and Queen Elizabeth II) and Lee Valley (includes King George and William Girling) groups - pumped storages.
7. Farmoor 1 and 2 - pumped storages.
8. Blagdon, Chew Valley and others.

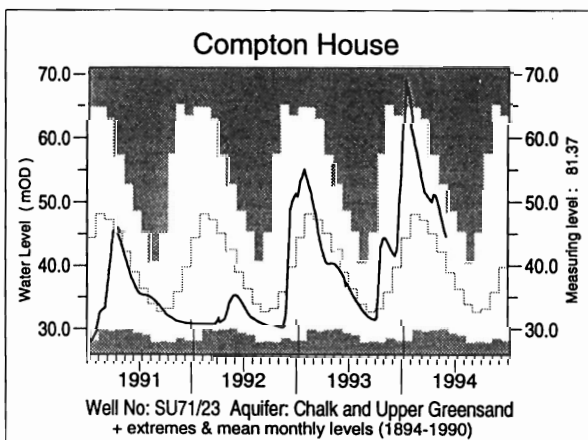
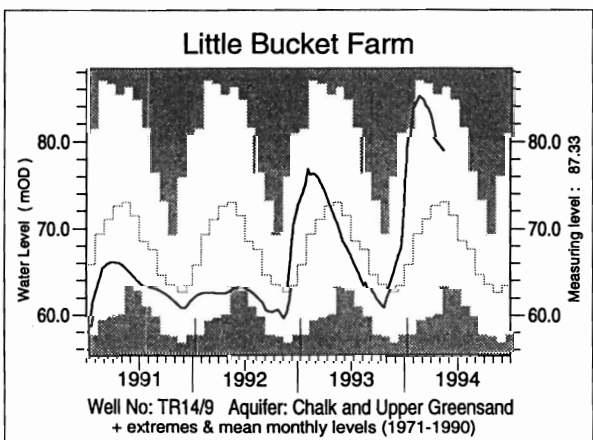
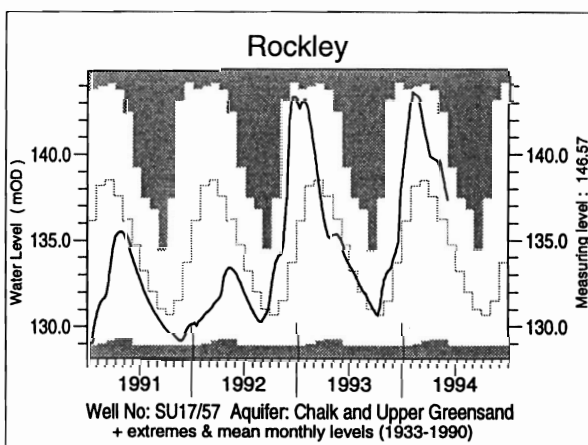
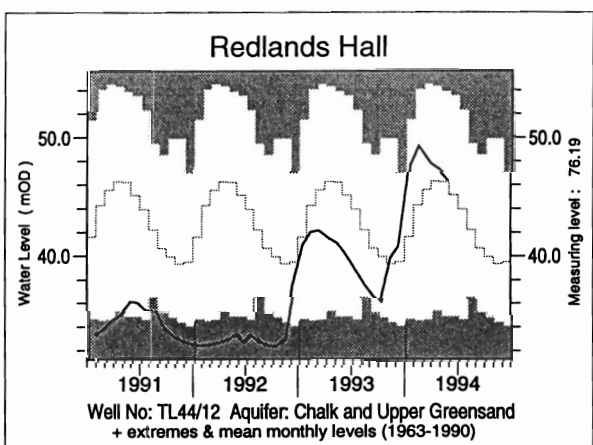
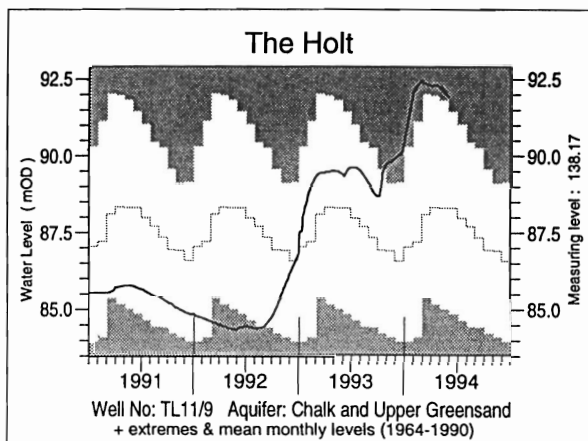
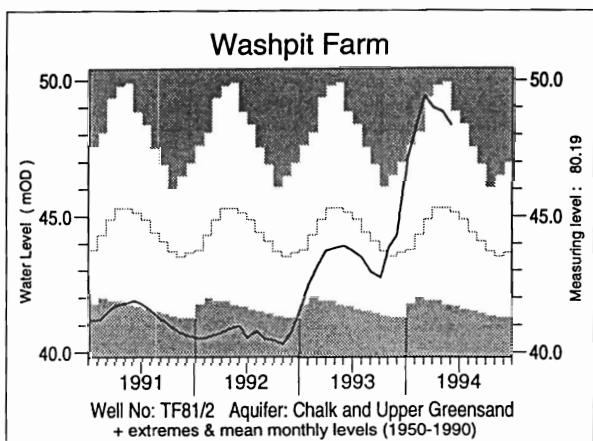
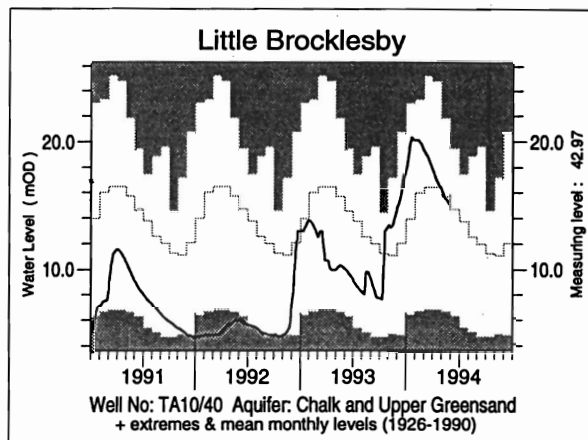
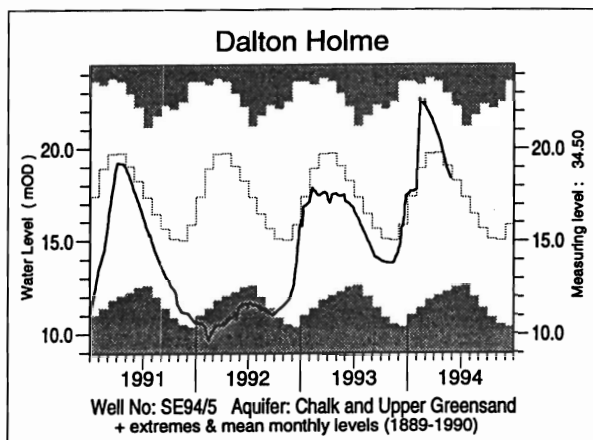
9. Shared between South West (river regulation for abstraction) and Wessex (direct supply).

10. Usk, Talybont, Llandegfedd (pumped storage), Taf Fechan, Taf Fawr.

11. Claerwen, Caban Coch, Pen y Garreg and Craig Goch.

Note: Variations in storage depend on the balance between inputs (from catchment rainfall and any pumping) and outputs (to supply, compensation flow, HEP, amenity). There will be additional losses due to evaporation, especially in the summer months. Operational strategies for making the most efficient use of water stocks will further affect reservoir storages. Table 4 provides a link between the hydrological conditions described elsewhere in the report and the water resources situation.

FIGURE 2 GROUNDWATER LEVEL HYDROGRAPHS



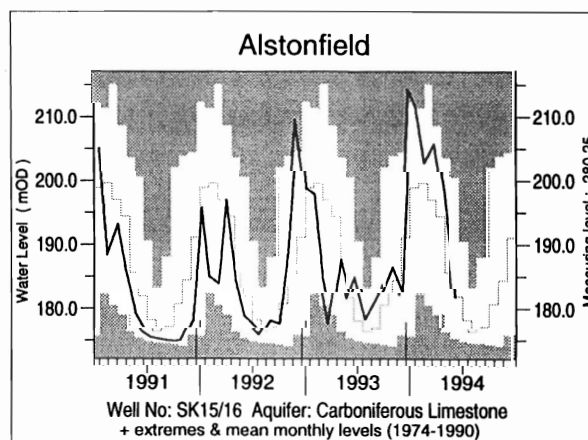
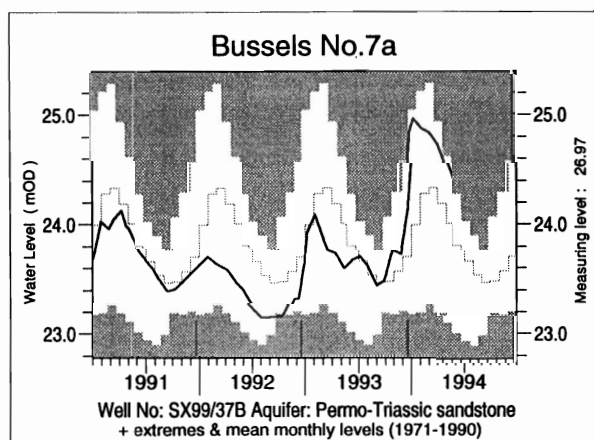
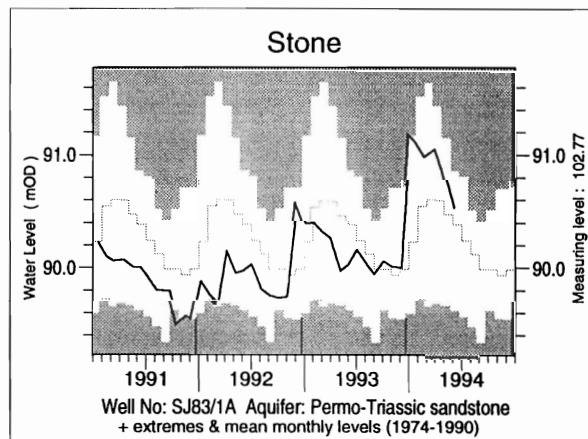
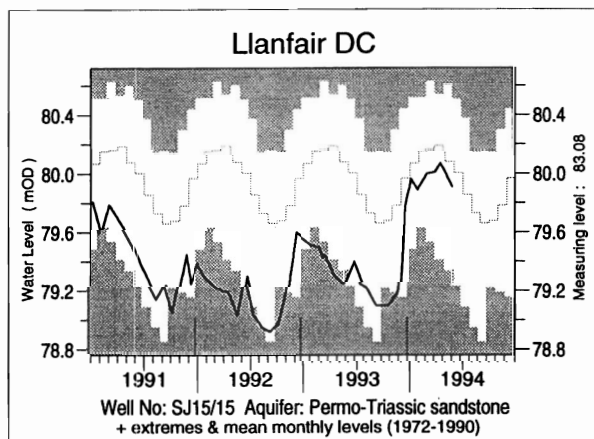
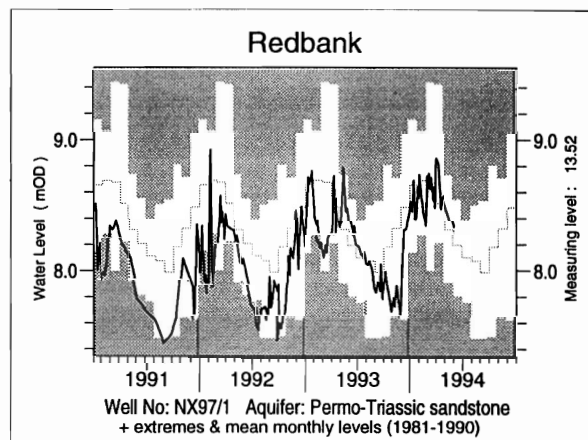
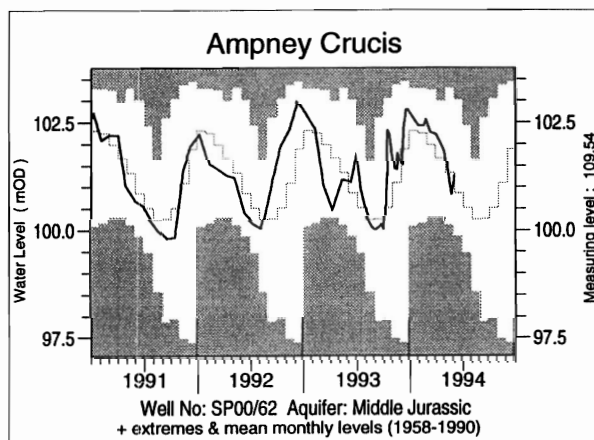
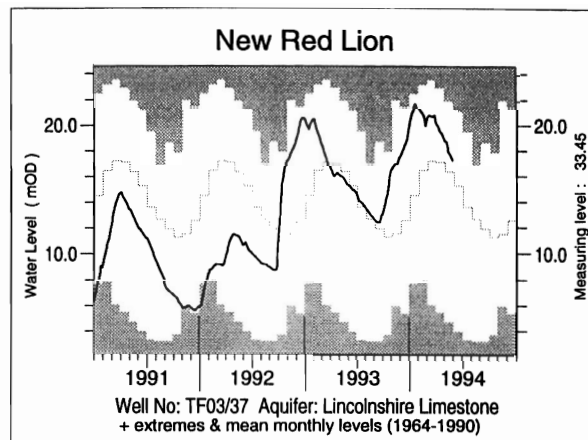
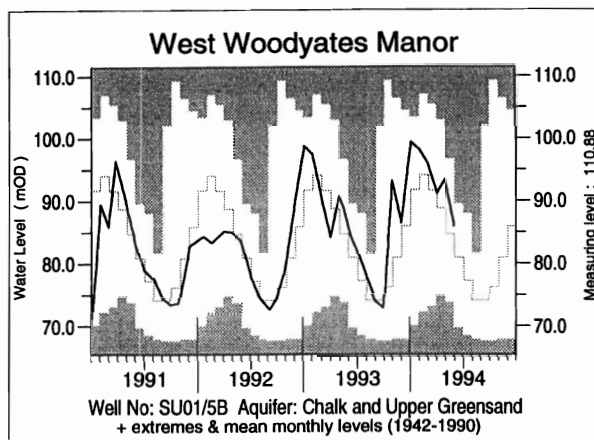


TABLE 5 A COMPARISON OF MAY GROUNDWATER LEVELS: 1993 AND 1994

Site	Aquifer	Records commence	Minimum May	Average May	Maximum May	May 1993		May/June 1994	
			< 1994	< 1994	< 1994	day	level	day	level
Dalton Holme	C & UGS	1889	10.77	19.11	22.99	28/05	17.49	27/05	18.41
Wetwang	C & UGS	1971	19.14	23.61	30.02	28/05	23.06	27/05	21.29
Little Brocklesby	C & UGS	1926	5.56	14.69	21.77	24/05	10.23	26/05	15.17
Washpit Farm	C & UGS	1950	40.87	45.27	49.90	04/05	43.83	02/06	48.32
The Holt	C & UGS	1964	84.26	88.15	91.78	30/05	89.38	31/05	91.88
Therfield Rectory	C & UGS	1883	dry <71.6	81.51	97.72	04/05	80.46	01/06	86.70
Redlands Hall	C & UGS	1964	33.34	44.98	53.89	14/05	41.10	27/05	46.37
Rockley	C & UGS	1933	129.16	136.06	142.36	30/05	134.89	31/05	137.25
Little Bucket Farm	C & UGS	1971	62.84	72.07	86.15	20/05	70.18	15/05	78.91
Compton House	C & UGS	1984	29.71	41.18	52.55	17/05	40.13	01/06	44.53
Chilgrove House	C & UGS	1836	37.49	49.29	66.54	17/05	48.62	01/06	52.01
West Dean No.3	C & UGS	1940	1.24	1.87	2.84	28/05	1.87	28/05	2.36
Lime Kiln Way	C & UGS	1969	124.02	125.40	126.17	18/05	124.38	19/05	125.84
Ashton Farm	C & UGS	1974	65.29	68.65	70.33	15/05	68.09	31/05	68.94
West Woodyates Manor	C & UGS	1942	73.74	84.54	96.74	15/05	88.93	31/05	85.97
New Red Lion	LLst	1964	4.80	15.99	22.00	24/05	15.38	26/05	17.26
Ampney Crucis	Mid Jur	1958	100.12	101.26	103.30	10/05	101.17	31/05	101.25
Dunmurry (NI)	PTS	1985	27.71	28.27	28.75	28/05	28.59	24/05	27.53
Yew Tree Farm	PTS	1973	13.07	13.54	13.84	24/05	13.56	06/06	13.68
Llanfair D.C	PTS	1972	79.03	79.94	80.60	23/05	79.25	20/05	79.91
Morris Dancers	PTS	1969	31.85	32.48	33.50	18/05	31.85	13/05	32.25
Weeford Flats	PTS	1966	dry <88.61	90.03	91.61	05/05	dry <88.61	06/06	90.33
Stone	PTS	1974	89.67	90.45	91.16	05/05	89.97	06/06	90.53
Skirwith	PTS	1978	130.20	130.63	130.98	28/05	130.49	02/06	130.79
Redbank	PTS	1981	7.92	8.32	8.80	31/05	8.50	02/06	8.33
Bussels No.7A	PTS	1972	23.11	23.96	24.62	12/05	23.60	25/05	24.42
Rushyford NE	MgLst	1967	65.31	72.57	76.75	31/05	75.65	23/05	76.63
Peggy Ellerton	MgLst	1968	31.45	34.56	37.24	10/05	31.97	25/05	34.33
Alstonfield	CLst	1974	176.53	186.11	203.79	04/05	187.70	07/06	181.74

groundwater levels are in metres above Ordnance Datum

C & UGS Chalk and Upper Greensand
LLst Lincolnshire Limestone
PTS Permo-Triassic sandstones

Mid Jur Middle Jurassic limestones
MgLst Magnesian Limestone
CLst Carboniferous Limestone

Note: Table 5 has been redesigned to include both monthly minimum and monthly maximum levels.

FIGURE 3 LOCATION MAP OF GAUGING STATIONS AND GROUNDWATER INDEX WELLS

